

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: M116480
Date Received: 05/17/07
Date Extracted: 05/18/07
Date Analyzed: 05/18/07
Matrix: Water
Units: ug/L (ppb)

Client: Alaskan Copper Works
Project: Metro Self Monitor, PO# M116480
Lab ID: 705216-01 x10
Data File: 705216-01 x10.041
Instrument: ICPMS1
Operator: HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	68	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	317
Nickel	182
Copper	145
Zinc	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	Metro Self Monitor, PO# M116480
Date Extracted:	05/18/07	Lab ID:	I7-184 mb
Date Analyzed:	05/18/07	Data File:	I7-184 mb.031
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower	Upper
Germanium	96	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/22/07

Date Received: 05/17/07

Project: Metro Self Monitor, PO# M116480, F&BI 705216

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 705218-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	67.6	70.5	4	0-20
Nickel	ug/L (ppb)	4.65	4.29	8	0-20
Copper	ug/L (ppb)	6.07	6.26	3	0-20
Zinc	ug/L (ppb)	2.87	3.12	8	0-20

Laboratory Code: 705218-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	67.6	93 b	50-150
Nickel	ug/L (ppb)	20	4.65	100 b	50-150
Copper	ug/L (ppb)	20	6.07	100 b	50-150
Zinc	ug/L (ppb)	50	2.87	106	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	105	70-130
Nickel	ug/L (ppb)	20	106	70-130
Copper	ug/L (ppb)	20	107	70-130
Zinc	ug/L (ppb)	50	113	70-130

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
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May 22, 2007

DUPLICATE

INVOICE #07ACU0522-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M116480, F&BI 705216 - Results of testing
requested by Gerry Thompson for material submitted on May 17, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 200.8 @ \$80 per sample	\$ 80.00
Rush Charges (4 day) 60% of \$80.00	<u>48.00</u>
Amount Due	\$ 128.00

FEDERAL TAX ID # (b) (6)

705216

SAMPLE CHAIN OF CUSTODY

ME 05/17/07

AI 4

Send Report To Gerard ThompsonCompany Alaskan Copper WorksAddress 628 S. Hamford StCity, State, ZIP Seattle WA 98134Phone # 206-571-6033 Fax # 206-382-4309SAMPLERS (signature) [Signature]

PROJECT NAME/NO.

MESTO SELF monitor

PO #

M 116480

REMARKS

See Results

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH For

Rush charges authorized by: _____

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes			
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS								
M 116480	01	5/17/02	12:30	H2O	1							X	Accy 5/22						

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

Relinquished by: [Signature]

PRINT NAME

Gerard Thompson

COMPANY

ACW

DATE

5/17/07

TIME

1:00pmReceived by: [Signature]Nhan PhanF&BI5/17/07V

Relinquished by:

Received by:

Samples received at 24 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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May 22, 2007

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on May 17, 2007 from the Metro Self Monitor, PO# M116480, F&BI 705216 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0522R.DOC